

From: Laura Gibbons
Sent: 11 July 2018 12:51
To: Anita Gardner
Subject: RE: M/64/18/DOC172 Elmer Road

Hi Anita,
I am happy with the revised details. My only comment is the applicant needs to ensure 150mm concrete bed and surround on all pipes.
Thanks,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
Maltravers Road, Littlehampton, BN17 5LF
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From: Anita Gardner
Sent: 10 July 2018 17:21
To: Laura Gibbons
Subject: FW: M/64/18/DOC172 Elmer Road

Hi Laura,

Please see the response from Mr Farndell.
Can I have your comments please?
Thanks
Anita

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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From: Lee Farndell [REDACTED]
Sent: 10 July 2018 16:38
To: Anita Gardner
Subject: RE: M/64/18/DOC172 Elmer Road

Hi Anita,

Please see below for our replies, together with revision D attached.

Best regards,

Lee Farndell
Farndell Builders Ltd
[REDACTED]

From: Anita Gardner [mailto:Anita.Gardner@arun.gov.uk]
Sent: 09 July 2018 10:06
[REDACTED]
Subject: FW: M/64/18/DOC172 Elmer Road

Dear Mr Farndell,
Please see the comments of our Drainage Engineer set out below. I await your response
Regards
Anita Gardner

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From: Laura Gibbons
Sent: 09 July 2018 09:51
To: Anita Gardner
Subject: RE: M/64/18/DOC172 Elmer Road

Hi Anita,
I have the following comments:

- I am a little confused as to how the infiltration rates have changed between submissions. In the previous submission the lowest rate was $6.07 \times 10^{-6} \text{ms}^{-1}$. Now it has changed to $5.46 \times 10^{-5} \text{ms}^{-1}$. Please can the applicant explain this discrepancy?
The original infiltration rate was incorrectly calculated and based on a different field test. The actual test was a percolation test with the results reported in Vp (mm/sec), the test method and the derivation of infiltration rate is detailed in the calculation together with the test results. And the worst infiltration value has been used which is very conservative as the infiltration rate measured at the location of the soakaway is an order of magnitude greater.
 - The finished floor levels are labelled as being lower than the pipe invert levels. It is not clear if some of the levels on the plan are cover or invert levels. If all pipe levels are invert levels they need to reassess design, as water does not flow up hill. If they are cover levels then I am also concerned as the building finished floor level is 1.54 meters lower. Please can the application confirm the levels.
Our error. We went up with the figures (which is what happens when you read the measurements on site), rather than down for the plan.
 - Manholes need to be provided at the corners of the property where there is a 90 degree change in pipe direction.
 - The winter groundwater monitoring was completed in October, therefore not at the peak of groundwater levels. As a result the base of infiltration structures need to be set no lower than 1mbgl.
 - Please ensure all infiltration structures are at least 5m from buildings.
- We have now re-designed the drainage to account for all four above points. Please see attached.

Thanks,

Laura Gibbons, MEng, GMICE
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
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From: Anita Gardner
Sent: 06 July 2018 11:07
To: Laura Gibbons
Subject: FW: M/64/18/DOC172 Elmer Road

Hi Laura,
Please can you advise if this additional information is now sufficient to discharge the condition
Thanks
Anita

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From: Lee Farndell [REDACTED]
Sent: 06 July 2018 10:45
To: Anita Gardner
Subject: RE: M/64/18/DOC172 Elmer Road

Hi Anita,

Our structural engineer has come back to us fairly rapidly this time. Please find attached revision C for the surface water calcs.

The applicant has not provided winter groundwater monitoring results and therefore the suitability of design cannot be assessed. Please provide this. – Test holes A& B recorded on schedule as 18/10/17

It should also be noted that the lowest recorded infiltration rate should be used, not the average. I.e. please use $6.07 \times 10^{-6} \text{ms}^{-1}$ – Test hole A has the lowest infiltration level. This result has been used for the new calcs.

Please also provide drainage layout plans which label invert and cover levels of infiltration structures; invert level, fall and dimensions of all surface water pipes; as well as the location of catch-pit/ silt traps. Drawing now included in schedule showing the drainage layout, levels, falls and dimensions.

I trust that this revised effort will now be satisfactory for the Drainage Engineer.

Best regards,

Lee Farndell
Farndell Builders Ltd
[REDACTED]

From: Anita Gardner [<mailto:Anita.Gardner@arun.gov.uk>]
Sent: 06 July 2018 10:27
To: 'Lee Farndell' [REDACTED]
Subject: RE: M/64/18/DOC172 Elmer Road

Hi Lee,

I am happy to wait receipt of additional info. At this stage there is no need for an EOT the application does not expire until next month

Regards

Anita Gardner

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From: Lee Farndell [REDACTED]
Sent: 04 July 2018 10:41
To: Anita Gardner
Subject: RE: M/64/18/DOC172 Elmer Road

Hi Anita,

Thank you for your comments. The surface water calcs are back with our structural engineer and I hope to get it all back to you by next week. Would it be possible to arrange an extension of time if he can't get the information back to me in time?

Best regards,

Lee Farndell
Farndell Builders Ltd

From: Anita Gardner [mailto:Anita.Gardner@arun.gov.uk]

Sent: 27 June 2018 10:06

Subject: M/64/18/DOC172 Elmer Road

Dear Mr Farndell,

Please see the comments of the Drainage Engineer set out below:

Engineers Responses Relating to Condition 7- surface water drainage

The applicant has not provided winter groundwater monitoring results and therefore the suitability of design cannot be assessed. Please provide this.

It should also be noted that the lowest recorded infiltration rate should be used, not the average. I.e. please use $6.07 \times 10^{-6} \text{ms}^{-1}$

Please also provide drainage layout plans which label invert and cover levels of infiltration structures; invert level, fall and dimensions of all surface water pipes; as well as the location of catch-pit/ silt traps.

I would appreciate receipt of this additional information within the next 2 weeks

Regards

Anita Gardner

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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